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Course Name: M.Sc Toxicology, Semester-II End term Examination (2023-24)

Paper Name: Pesticide and Heavy Metal Toxicology
 Time: 2.5Hrs

Paper Code: MTX CC 203
 Maximum Marks: 60

Note: This paper has 3 section A, B and C. Attempt all the three sections.

Section A: Answer all the questions; Section B: Answer any 2 out of 4; Section C: Answer all the questions.

SECTION A

Very Short Type Questions

(Marks 1X20)

Tick True (✓), False (X) or fill in the blanks.

Q. No.	Question	Marks	BTL-	CO	PO
1.	Urea is photosynthesis inhibitor.	1			
2.	Na salt of EDTA is used to control hypercalcaemia	1			
3.	Ni combines with -----to form Nickel Carbonyl in refinery.	1			
4.	DDT in cockroaches is metabolized to-----	1			
5.	Arsenate can replace-----in process of glycolysis.	1			
6.	Lindane act at -----binding site of GABA receptor.	1			
7.	Active ingredient of Dora Rat Killer is pyrethrin.	1			
8.	Atropine and 2-PAM are antidote for OP poisoning	1			
9.	Rapidly growing weeds are not susceptible to herbicides toxicity.	1			
10.	Smoking tobacco is important source Cd exposure in general population.	1			
11.	Increased urinary excretion of $\beta 2$ -microglobulin and $\alpha 1$ -microglobulin is sign of Lead exposure.	1			
12.	Under oxidative stress Guanine is oxidized to----	1			
13.	Cadmium depletes Selenium level in body	1			
14.	Cisplatin is formulated in saline to prevent-----	1			
15.	Cr^{+3} and nicotinic acid combine to form-----	1			
16.	Cu affects sense of smell in fish	1			
17.	Attention Deficit Disorder is associated with ----- exposure	1			
18.	Herbicide spray adjuvants are used to improve spray retention time.	1			
19.	L-isomer of pencillamine is not used as chelating agent.	1			
20.	Lead's effect on calmodulin alter -----homeostatis	1			

SECTION B

Long type Question (Attempt any two out of four)

(Marks 2X10)

Q. No.	Question	Marks	BTL-	CO	PO
1.	Toxicokinetics and mode of action of Organochlorine pesticides.				
2.	Give a detailed account of Mercury toxicity.				
3.	Therapeutic use of Platinum in cancer				
4.	Herbicide mechanism of action				

SECTION C

Short-type Questions. (Attempt all questions)

(4 X5)

Q. No.	Question	Marks	BTL-	CO	PO
1.	Benefits of Integrated Pest Management.				
2.	Commonly used chelating agents and mode of action.				
3.	Ecotoxicology of metals.				
4.	Cross linking and DNA base damage due to heavy metals.				
5.	Safety of traditional medicines				